New York State Journal Of Medicine
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FAILURE OF U.S.P. DISINTEGRATION TEST› TO ASSESS PHYSIOLOGIC AVAILABILITY OF ENTERIC COATED TABLETS

LEVY, G; HOLLISTER, L E

[Journal Article; In English; United States]

Specialty Indexing

NLM Keywords: * ASPIRIN; * BIOLOGICAL ASSAY; * CLINICAL RESEARCH; * DELAYED-ACTION PREPARATIONS

Citation Subset Indicators: OM

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Comparison between the U.S.P. 18 and the wet sieving disintegration tests

Sandell, E; Helmstein, I

[Journal Article; In English; Sweden]

CAS Registry Numbers: Capsules; Tablets; Tablets, Enteric-Coated

Citation Subset Indicators: Index Medicus

MeSH Terms: Capsules, * standards (ST); Chemistry, Pharmaceutical, standards (ST); Comparative Study; Methods; Solubility; Tablets, * standards (ST); Tablets, Enteric-Coated

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Effects of hardness on the disintegration time and the dissolution rate of uncoated caffeine tablets

Kitazawa, S; Johno, I; Ito, Y; Teramura, S; Okado, J

Abstract

The effects of hardness on disintegration and dissolution characteristics of uncoated caffeine tablets made at eight different pressure levels were studied. The disintegration times were determined using the J.P. VIII procedure with disks and the dissolution rate measurements were performed with the **U.S.P.** XVIII procedure (**U.S.P.** method) and the J.P. VIII **disintegration test** apparatus (J.P. method). A good correlation between the hardness and the disintegration times was obtained. The dissolution rate constants were determined from the equation of Noyes & Whitney (1897) and a good correlation between the hardness and the dissolution rate constants was obtained. The hardness governed the dissolution over all the stages from tablet to the smallest particles after the breakage by disintegration. The dissolution rates of the J.P. method were greater than those of the **U.S.P.** method. [Journal Article; In English; England]

CAS Registry Numbers: Tablets; 58-08-2, Caffeine

Citation Subset Indicators: Index Medicus

MeSH Terms: * Caffeine; Chemistry, Pharmaceutical; Hardness; Kinetics; Particle Size; Solubility; Tablets; Time Factors

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